

Serial No.10/691,704
Reply to Office Action of March 6, 2008

Docket No. P-0600

Amendments to the Drawings

A Replacement Sheet for Figure 1 has been submitted to include a legend in this figure.

REMARKS

Claims 1-3 and 6 are pending. Claims 1 and 6 have been amended and a Replacement Sheet has been submitted to include a legend in Figure 1. Also, claim 6 has been amended to overcome the claim objection.

In the Office Action, claims 1-3 and 6 were rejected under 35 USC § 102(b) for being anticipated by the Nowara patent. Applicants request the Examiner to withdraw this rejection for the following reasons.

Claim 1 has been amended to recite step (f) which involves “synchronizing a mobile station and base station based on the synchronous position determined in (e), wherein the mobile station performs initial cell retrieval using a single filter based on the synchronization obtained in (f).” (See, for example, page 2 of the specification for support).

The Nowara patent discloses dividing a baseband signal into a partial signal and then synchronizing only the partial signal with a PN code sequence. (See column 3, lines 1-39). Through these steps, a mobile station signal is synchronized with the pilot signal of a base station. (See column 14, lines 20-21). However, Nowara does not disclose synchronizing a mobile station and base station based on the synchronous position determined in (e), wherein the mobile station performing initial cell retrieval using a single filter based on the synchronization obtained in (f). As shown in Figure 7B, Nowara teaches away from these features by using multiple filters 48a-48c and 51a-51c to perform synchronization.

The use of multiple filters increases complexity and the number of calculations that are required to be performed in order to obtain synchronization. In contrast, by using only one filter the claimed invention is able to reduce complexity and calculations to thereby increase efficiency.

Because the Nowara patent does not disclose all the features recited in claim 1, it is respectfully submitted that Nowara does not anticipate claim 1 or any of its dependent claims. Furtherance of claim 1 and its dependent claims to allowance is therefore respectfully requested.

Claim 6 has been amended to recite features similar to those that patentably distinguish claim 1 from the Nowara patent. In addition, claim 6 recites that if the correlation value is greater than the preset threshold value, then “multiplying adjacent data which either precedes or follows the extracted baseband data by only a real number unit of the synchronous code data.” These features are also not disclosed by the Nowara patent.

In Nowara, a correlation value is computed based on a partial portion of the baseband signal and a PN sequence. If additional partial portions of the baseband signal exist as determined by step S8 (column 7, lines 14-15), then the next partial portion of the baseband signal is correlated. However, the next partial portion is not correlated with only a real number unit of synchronous code data as required by claim 6, but rather is correlated with a next PN sequence. (See step S9 and column 7, lines 16-18). As a result, the claimed invention obtained synchronization in a way different from Nowara.

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Because the Nowara patent does not disclose all the features of claim 6, it is respectfully submitted that Nowara does not anticipate this claim. Furtherance of claim 6 to allowance is therefore respectfully requested.

In view of the foregoing amendments and remarks, it is respectfully submitted that this application is in condition for allowance. Favorable consideration and prompt allowance are earnestly solicited.

To the extent necessary, a petition for an extension of time under 37 CFR § 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this, concurrent and future replies, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,
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